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MEMORANDUM FOR THE FILES : Engineering Trip Report

FROM :

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SUBJECT :

Thermo-electric generator, URP-11

File

REFERENCE :

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1. A conference on the subject Task was held in the Arlington offices of the Contractor on 5 September 1952. Those present were:

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2. The results of the development work to date were evaluated and future programming was discussed. A copy of Interim Report No. 2 was available and formed the basis of the discussion.

3. In summary, published data on a number of alloys was compiled and calculations were made to evaluate their adaptation to the URP-11 generator. Experimental work was carried on to supplement this data. A number of experimental alloys were cast and their properties measured. Results of this experimental work indicated that some of the new alloys show considerable promise of exceeding the performance of previously-known types.

4. It now appears that, even with the new experimental alloys, the size and weight requirements of the URP-11 cannot be met. [] estimated that a unit which would produce the specified power at the specified fuel rate would weigh approximately 46 pounds compared to the original requirement of 15 pounds.

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5. The program for the next three-month period is expected to produce final estimates on the following:

a. Physical and electrical characteristics of a generator that would satisfy our current and voltage requirements.

b. Physical and electrical characteristics of a generator that would satisfy our size and weight requirements.

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Task II ✓

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